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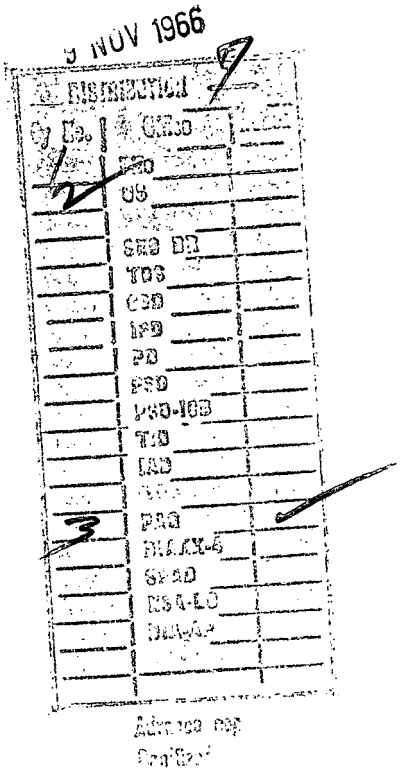
THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-922. 5 NOV 66.

S E C R E T

END OF MESSAGE



((NOTE: ALSO SENT [redacted]

25X1

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PJH-19

PREFACE

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-922. 5 NOV 66. ~~THE NUMBER AT THE RIGHT MARGIN OF THE HEADER LINE IS THE COMOR TARGET NUMBER.~~

"SYMBOLS USED TO INDICATE CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON PHOTOGRAPHY ARE AS FOLLOWS--
C @CLEAR¤, SC @SCATTERED CLOUD COVER¤, HC @HEAVY CLOUD COVER¤, H @HAZE¤, CS @CLOUD SHADOW¤, SD @SEMIDARKNESS¤, GC @GROUND COVER¤, CF @CAMOUFLAGE¤, Q @QUALITY¤, AND GR @GROUND RESOLUTION¤.
INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G @GOOD¤, F @FAIR¤, OR P @POOR¤. THE EXTENT OF TARGET COVERAGE IS DENOTED BY THE SYMBOLS T @TOTAL¤ OR PT @PARTIAL¤. THE MODE OF COVERAGE IS SIGNIFIED BY ST @STEREO¤, NS @NONSTEREO¤, OR PS @PARTIAL STEREO¤.
AAA DEFENSES ARE DIVIDED INTO THREE BASIC CATEGORIES -- LIGHT @ZPU-2, ZPU-4, AND 37MM¤, MEDIUM @57MM AND 85MM¤, AND HEAVY @100MM AND LARGER¤. WHERE SUCH A CATEGORY CANNOT BE DETERMINED, THE SITE WILL BE LISTED AS AN AAA SITE AND THE NUMBER OF GUNS INDICATED @EXAMPLE 6-GUN AAA SITE, OCCUPIED/UNOCCUPIED¤.

ITEMS OF SPECIAL INTEREST

MAJANA SAM SITE 2 @A27-A2¤ HAS BEEN FULLY REOCCUPIED AND APPEARS OPERATIONAL.
SIGUANEA CRUISE-MISSILE SITE HAS BEEN ABANDONED. ONLY 2 PROBABLE CRUISE-MISSILE CRATES REMAIN.
NEW CONSTRUCTION AND ADDITIONAL CRUISE-MISSILE-RELATED EQUIPMENT IS OBSERVED AT GUANABO CRUISE-MISSILE SITE.

MISSILES

CAMPO FLORIDO SAM SITE A07-2 CU 2309N 08202W
OB -- AT LEAST 4 EMPLACED LAUNCHERS @1 WITH MISSILE¤, 8 MISSILE TRANSPORTERS @4 WITH EXPOSED MISSILES AND 3 CANVAS COVERED¤, 2 TRACKED PRIME MOVERS, AND 2 VAN TRAILERS.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
PARTIAL COVERAGE LIMITS INTERPRETATION.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

GUANABACOA SAM SITE A14-2 CU 2305N 08216W
OB -- 6 EMPLACED LAUNCHERS @3 WITH MISSILES¤, 15 MISSILE TRANSPORTERS @9 WITH EXPOSED MISSILES AND 5 CANVAS COVERED¤, A CENTRAL GUIDANCE RADAR WITH 6 ASSOCIATED VAN TRAILERS, AND 8 OTHER VEHICLES.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

GUARA SAM SITE A29-2 CU 2248N 08213W
OB -- 6 EMPLACED LAUNCHERS, 7 MISSILE TRANSPORTERS, A FAN SONG RADAR WITH ASSOCIATED CANVAS-COVERED EQUIPMENT, 3 TRACKED PRIME MOVERS, 1 PROBABLE ZIL 157-V TRUCK TRACTOR, AND 3 OTHER VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

LA CACHIMBA SAM SITE A12-2 CU 2245N 08227W
OB -- 6 EMPLACED LAUNCHERS @1 WITH MISSILE¤, 10 MISSILE TRANSPORTERS, A FAN SONG RADAR WITH 4 ASSOCIATED VAN TRAILERS AND OTHER COVERED EQUIPMENT, AND 9 OTHER VEHICLES.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE AND 2 OCCUPIED 3-GUN AAA SITES.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

LA SALUD SAM

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SITE APPEARS
SCATTERED CLOUDS AND OBLIQUITY LIMIT INTERPRETATION.

25X1

MAJANA SAM SITE 2 A27-A2 CU 2241N 08249W
OB -- 6 EMPLACED LAUNCHERS, 9 MISSILE TRANSPORTERS, AT LEAST 11 MISSILE CANISTERS, A FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, 7 AT-S TRACKED PRIME MOVERS, 5 ZIL 157-V TRUCK TRACTORS, 9 CARGO TRUCKS, 1 TRUCK-MOUNTED CRANE, AND 2 OTHER VEHICLES.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

MANAGUA SAM SITE A05-2 CU 2259N 08215W
OB -- 6 EMPLACED LAUNCHERS @2 WITH MISSILES¤, 11 MISSILE TRANSPORTERS @2 WITH EXPOSED MISSILES AND 9 CANVAS COVERED¤, A CENTRAL GUIDANCE RADAR WITH 6 ASSOCIATED VAN TRAILERS AND 2 ADDITIONAL VAN TRAILERS, AND 16 OTHER VEHICLES.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

MARIEL SAM SITE 2 A30-2 CU 2303N 08248W
OB -- 6 EMPLACED LAUNCHERS @2 WITH MISSILES¤, 9 MISSILE TRANSPORTERS @ALL WITH EXPOSED MISSILES¤, A GUIDANCE RADAR WITH ASSOCIATED EQUIPMENT, AND AT LEAST 10 OTHER VEHICLES.
NO APPARENT CHANGE IN LAUNCH AND SUPPOPT FACILITIES.

25X1

PUNTA BRAVA SAM SITE A30-2 CU 2301N 08231W
OB -- AT LEAST 3 EMPLACED LAUNCHERS @2 WITH MISSILES¤, 5 MISSILE TRANSPORTERS @3 WITH EXPOSED MISSILES¤, AND 9 OTHER VEHICLES OBSERVED IN CLOUD-FREE AREAS.

25X1

SANTIAGO DE LAS VEGAS SAM ASSEMBLY AREA CU 2257N 08221W
OB -- 8 PROBABLE MISSILE TRANSPORTERS, NUMEROUS MISSILE CANISTERS, 2 PROBABLE LOWBOY TRACTOR-TRAILER TRUCKS, AND AT LEAST 20 OTHER VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1

SANTA FE SAM SITE CU 2147N 08250W
PERMANENT SITE REMAINS UNDER CONSTRUCTION.
OB @AT ADJACENT TEMPORARY SITE¤ -- 6 EMPLACED LAUNCHERS @3 WITH MISSILES¤, 19 MISSILE TRANSPORTERS @14 CANVAS COVERED, 5 WITH EXPOSED MISSILES¤, A FAN SONG RADAR WITH 7 ASSOCIATED VAN TRAILERS, A PROBABLE TRUCK-MOUNTED SPOON REST RADAR WITH AN ASSOCIATED VAN TRAILER, 13 AT-S TRACKED PRIME MOVERS, 3 TRUCK TRACTORS, 7 CARGO TRUCKS, 1 TRUCK-MOUNTED CRANE, AND 2 OTHER VEHICLES.
ACTIVITY -- 1 OCCUPIED 6-GUN LIGHT AAA SITE.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

SIGUANEA CRUISE-MISSILE SITE CU 2137N 08258W
SITE HAS BEEN ABANDONED. ONLY 2 PROBABLE CRUISE-MISSILE CRATES REMAIN.

PJU
30

25X1

SANTA CRUZ DEL NORTE CRUISE-MISSILE SITE CU 2309N 08156W
OB -- 2 EMPLACED LAUNCHERS, AT LEAST 3 CRUISE-MISSILE TRANSPORTERS, 12 CRUISE-MISSILE CRATES, A PROBABLE SHELT BEND RADAR, 5 VAN TRUCKS/VAN TRAILERS, AND 6 OTHER VEHICLES.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN LAUNCH A SUPPORT FACILITIES.

25X1

GUANABO CRUI
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OB -- 2 EMPL[illegible]
AREA.
NEW CONSTRUCTION AND ADDITIONAL CRUISE-MISSILE-RELATED
EQUIPMENT OBSERVED 8.8 NM SSE AT 23-09-28N 082-03-30W
@UTM 17QLR917612@. AREA CONTAINS 2 LAUNCH REVETMENTS
IN LATE STAGE OF CONSTRUCTION, 14 LARGE NON-SOVIET
TENTS, 2 CRUISE-MISSILE LAUNCHERS @NOT EMPLACED@, 8
CRUISE-MISSILE TRANSPORTERS, 1 TRUCK-MOUNTED CRANE, 22
OTHER VEHICLES, AND 3 VAN TRAILERS.
@MAP REFERENCE -- AMS SERIES E723, SHEET 3785-II, 4TH
ED.@

25X1

AIR FACILITIES

SIGUANEA AIRFIELD CU 2138N 08257W
OB -- NONE.

25X1

SAN ANTONIO DE LOS BANOS AIRFIELD CU 2252N 08230W
OB -- 21 FISHBED, 5 FARMER, AND 9 FAGOT/FRESCO.
ACTIVITY -- 1 PROBABLE MIG 21 SHIPPING CRATE OBSERVED
ADJACENT TO TAXIWAY SYSTEM IN NORTHEAST SECTION.
PRESENCE OF OTHER PREVIOUSLY REPORTED SHIPPING CRATE
UNDETERMINED BECAUSE OF HAZE.

25X1

SAN JULIAN AIRFIELD CU 2205N 08409W
OB -- 1 COLT, 17 PROBABLE ZLIN TRENER, AND 5 PROBABLE
LIAISON.

25X1

JOSE MARTI INTERNATIONAL AIRFIELD CU 2259N 08224W
OB @OPERATIONS AREA@ -- 1 CLEAT, 2 BRITANNIA, 1 COOT, 1
CUB, 5 COKE, 7 CRATE, 2 C-46, 2 C-47, AND 4 LIAISON.
OB @MAINTENANCE AREA@ -- 7 CRATE AND 3 MORAVA L-200.

25X1

CAMPO LIBERTAD AIRFIELD CU 2305N 08226W
OB -- 1 FAGOT/FRESCO, 1 COLT, 2 LIAISON AND 32 HOUND @8
WITHOUT ROTORS@ OBSERVED IN CLOUD-FREE AREAS.

25X1

COLONEL MARTIN MARRERRO AIRFIELD CU 2150N 08246W
OB -- 1 CRATE, 1 COLT, AND 1 LIAISON.

25X1

JAIME GONZALES AIRFIELD CU 2209N 08024W
OB -- 1 COOT WITHOUT OUTER WING PANELS.

25X1

NAVAL ACTIVITY/PORTS

MARIEL NAVAL BASE AND NAVAL AIR STATION CU 2259N 08244W
OB -- 3 PROBABLE S.O.1-CLASS SC.

25X1

SIGUANEA NAVAL BASE CU 2136N 08258W
OB -- 1 YE.

25X1

CIENFUEGOS NAVAL BASE CU 2208N 08027W
OB -- NONE OBSERVED.
OTHER VESSELS -- 1 LARGE TANKER.
HAZE AND OBLIQUITY LIMIT INTERPRETATION.

25X1

NUEVA GERONA PORT CU 2153N 08248W
VESSELS -- 1 LARGE FREIGHTER @WITH LIGHTER ALONGSIDE@
OBSERVED OFFSHORE.

25X1

LA HABANA PORT FACILITIES CU 2307N 08220W
VESSELS -- 5 LARGE FREIGHTERS, 2 COASTAL FREIGHTERS, 3
FISH-FACTORY TRAWLERS, AND 7 OTHER TRAWLERS OBSERVED IN
CLOUD-FREE AREAS.

25X1

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SANTA PE [illegible] RADAR SITE CU 2139N [illegible]245W
OB -- NONE OBSERVED.
ACTIVITY -- 7 VAN TRUCKS AND 3 OTHER VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

25X1

[illegible] MILITARY ACTIVITY

ARTEMISA MILITARY CAMP CU 2250N 08248W
OB -- 15 TANKS/SP GUNS AND 13 CARGO TRUCKS.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN FACILITIES.

25X1

RANCHO BOYEROS MIL TRAINING AREA A CAMP CU 2300N 08218W
OB -- 7 PROBABLE FA PIECES, AT LEAST 103 PROBABLE CARGO TRUCKS, 27 OTHER VEHICLES, AND AT LEAST 12 OTHER VEHICLES/PIECES OF EQUIPMENT OBSERVED IN CLOUD-FREE AREAS.
6 NO APPARENT CHANGE IN FACILITIES.

25X1

LA HABANA BARRACKS COJIMAR CU 2309N 08215W
OB -- 38 TRACKED PRIME MOVERS, 184 CARGO TRUCKS, AND 25 OTHER VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1

SANTIAGO DE LAS VEGAS MILITARY CAMP CU 2258N 08220W
OB -- AT LEAST 150 VEHICLES OBSERVED.
OBLIQUITY LIMITS INTERPRETATION.
NO APPARENT CHANGE IN FACILITIES.

25X1

SANTIAGO DE LAS VEGAS MIL CAMP SOUTH CU 2257N 08223W
OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

25X1

BAJURAYABO MILITARY CAMP CU 2303N 08210W
OB -- 18 FA PIECES AND 29 CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

25X1

ATV 21

CAMPO FLORIDO MILITARY CAMP EAST CU 2307N 08206W
OB -- 2 TANKS/SP GUNS, 30 CARGO TRUCKS, 2 VAN TRUCKS, AND 3 OTHER VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1

CAMPO FLORIDO MILITARY CAMP WSW CU 2306N 08211W
OB -- 35 FA PIECES AND 77 CARGO TRUCKS.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN FACILITIES.

25X1

CAYO LARGO MILITARY AREA CU 2137N 08133W
OB -- 6 TANKS/SP GUNS, 2 CARGO TRUCKS, AND 1 UTILITY TRUCK.
ACTIVITY -- 1 CRATE OBSERVED AT AIRFIELD.
2 NO APPARENT CHANGE IN FACILITIES.

25X1

GUANABACOA MILITARY AREA CU 2307N 08215W
OB -- 41 CARGO TRUCKS AND 4 OTHER VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1

JURAGUA U/I CONSTRUCTION ACTIVITY CU 2206N 08033W
NO APPARENT CHANGE SINCE [illegible]

25X1

25X1

MANAGUA MILITARY CAMP CU 2258N 08217W
OB -- AT LEAST 78 VEHICLES OBSERVED IN CLOUD-FREE AREAS.
NO APPARENT

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MINAS MILITARY CAMP JESUS MARIA FINCA CU 2306N 08211W
OB -- 3 AAA PIECES, 1 MORTAR, [redacted] CARGO TRUCKS, 2 VAN TRUCKS, 3 UTILITY TRUCKS, 6 OTHER VEHICLES, AND 6 VAN TRAILERS.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

3 NAZARENO MILITARY CAMP CU 2257N 08213W
OB -- AT LEAST 56 VEHICLES OBSERVED.
SCATTERED CLOUDS AND OBLIQUITY LIMIT INTERPRETATION.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTA FE MILITARY CAMP LA CLARITA CU 2144N 08247W
OB @MAIN CAMP# -- NONE OBSERVED.
OB @CAMP 1.5 NM NNW# -- 3 PROBABLE AAA PIECES AND 13 CARGO TRUCKS.
OB @CAMP 4.8 NM NW# -- 6 MORTARS AND 32 CARGO TRUCKS.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTA FE MILITARY CAMP LUMUMBA CU 2142N 08249W
OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTA FE MILITARY CAMP EAST CU 2144N 08244W
4 OB -- 11 FA PIECES, 20 CARGO TRUCKS, AND 16 OTHER VEHICLES/PIECES OF EQUIPMENT.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTA MARIA DEL ROSARIO VEHICLE PARK CU 2303N 08215W
OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

CHORRERA DE MANAGUA MILITARY CAMP W CU 2302N 08219W
OB -- 32 PROBABLE BTR 60-P, 10 CARGO TRUCKS, AND 14 OTHER VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SIGUANEA MILITARY ACTIVITY CU 2137N 08257W
OB -- 9 PROBABLE FA PIECES AND 9 PROBABLE CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

CIENFUEGOS LANDING BEACH CU 2202N 08036W
NO NEW MILITARY ACTIVITY OBSERVED.

5 [redacted] 25X1

PLAYA COLOMBO LANDING BEACH CU 2154N 08246W
NO NEW MILITARY ACTIVITY OBSERVED.

[redacted] 25X1

PLAYA DE FLAMENCOS LANDING BEACH CU 2153N 08243W
NO NEW MILITARY ACTIVITY OBSERVED.

[redacted] 25X1

-STATUS OF OTHER TARGETS-

THE FOLLOWING TARGETS SHOW NO APPARENT CHANGE SINCE LAST COVERAGE--

SANTA CRUZ DEL NORTE RADAR SITE	2308N 08155W
TARARA LANDING BEACH	2310N 08211W

THE FOLLOWING TARGETS COULD BE IDENTIFIED BUT NOT INTERPRETED--

SAN JOSE DE LAS LAJAS CRUISE-MSL STORAGE	2255N 08210W
PLAYA BARACOA AIRFIELD	2302N 08234W
CABANAS NAVAL BASE	2258N 08258W
SURGIDERO DE BATABANO PORT	2241N 08217W
BEJUCAL INTL BROADCASTING FACILITY	2253N 08220W
TORRENS MILITARY COMPLEX	2259N 08227W
GUANAJAY MILITARY CAMP MARTIN MESA	2257N 08243W
6 LA FLORA MILITARY CAMP	2252N 08233W
CIENFUEGOS MILITARY ACTIVITY	2209N 08027W
ALQUIZAR MILITARY ACTIVITY	2251N 08234W
PENINSULA DE HICACOS LANDING BEACH	2311N 08130W

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